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PERFORMANCE WORK STATEMENT (PWS)

C.1 Portsmouth D&D Project Overview and Objectives

C.1.1 Background

The Portsmouth site is a 3,778-acre federal reservation in south-central Ohio, one (1) mile east of U.S. Route 23, in rural Pike County. The site is approximately 75 miles south of Columbus, Ohio, and 22 miles north of Portsmouth, Ohio. The nearest residential center is the village of Piketon (approximately 1,800 population), approximately five (5) miles northwest of the facility on U.S. Route 23.

The Portsmouth Gaseous Diffusion Plant (GDP) was constructed by the Atomic Energy Commission in the early 1950s for the purpose of enriching the fissionable isotope of uranium from natural uranium to various product concentrations. The facility was originally constructed and operated as a uranium enrichment plant to supply both highly enriched uranium (HEU) and low enriched uranium (LEU) for defense purposes and commercial nuclear fuel sales. After 1991, the Portsmouth site produced only LEU for commercial power plants.

The 1992 Energy Policy Act (1992 EPAct) initiated a process to privatize the Department of Energy's (DOE) uranium enrichment enterprises. Initially, the United States Enrichment Corporation (USEC) was established to operate both the Portsmouth, Ohio, and Paducah, Kentucky, GDPs as a Government corporation.

The 1992 EPAct also stated the Portsmouth and Paducah GDPs were to be leased to USEC and required operations of the enrichment process to be regulated by the U.S. Nuclear Regulatory Commission (NRC), which issued certificates of compliance to USEC for both plants in November of 1996. In March of 1997, regulatory oversight for nuclear safety, safeguards, and security for the leased portions of both enrichment plants officially transferred from DOE to NRC with the following exceptions:

1) DOE retained regulatory oversight for personnel security, arming and arrest authority of the protective force; and
2) DOE retained regulatory oversight of USEC activities involving uranium enriched to 10% or greater.

In 2000, USEC announced that enrichment operations at the Portsmouth site would cease in 2001. In addition, USEC announced its intention to begin de-leasing and returning the GDP facilities to DOE. DOE then decided that the GDP should be maintained in a status that would allow a cost-effective resumption of enrichment operations within 18 to 24 months [Cold Standby (CSB)]. The Under Secretary of Energy approved the decision to terminate CSB effective September 30, 2005. Beginning October 1, 2005, the facilities were put in Cold Shutdown (CSD) as an interim measure until decontamination and decommissioning (D&D) activities begin. The D&D Project was established with the approval of Critical Decision (CD)-1 to begin planning and evaluation of the transition from CSD to D&D.

Remediation activities in the 1990s were conducted by a Management and Integration (M&I) contractor and managed by the Oak Ridge Operations Office (ORO). A DOE Environmental Management (EM) Portsmouth/Paducah Project Office (PPPO) was established in 2003 to conduct the cleanup. In 2005, remediation and infrastructure

contracts were established to continue the D&D of inactive facilities and ongoing remediation activities. The ongoing remediation activities have been conducted in accordance with a State of Ohio Consent Decree issued in August 1989, as amended (Civil Action Case #C2-89-732) from the State of Ohio Environmental Protection Agency (OEPA) and an Administrative Consent Order from the U.S. Environmental Protection Agency (USEPA) Region V. In 2007, the decision to proceed with the D&D Project was made. This contract will support DOE in transitioning from CSD to the D&D Project and complete the D&D of the excess GDP facilities.

The Portsmouth site currently has five (5) major contractors that support DOE with ongoing activities. The contractors and their respective summary level of scope are described below:

1) USEC has a lease for the GDP facilities which includes a site services agreement with DOE, which allows USEC to operate the GDP facilities and provide site services for site tenants under NRC oversight. In addition, USEC performs Technetium (Tc-99) removal activities, surveillance and maintenance (S&M) of all GDP leased facilities and systems, and infrastructure services for the leased facilities and areas.
2) LATA/Parallax Portsmouth (LPP) is a small business remediation contractor performing specific inactive facilities remediation work in returned facilities, cylinder management, groundwater monitoring and remediation, and legacy waste disposal.
3) Theta Pro2Serve Management Company (TPMC) is a small business infrastructure contractor performing the site infrastructure that is not covered by USEC.
4) Uranium Disposition Services (UDS) is responsible for construction and operation of the Depleted Uranium Hexafluoride (DUF6) Conversion Plant. Operations are scheduled to begin in 2010.
5) Restoration Services Incorporated (RSI) is a small business contractor providing environmental technical support (ETS) services directly to DOE.

The site has other tenants who are not directly supporting the D&D activities. For example, the Ohio National Guard and USEC use several Portsmouth facilities that have no impact on the D&D Project.

Portsmouth GDP facilities and its ancillary structures and systems are currently under lease to USEC (the “GDP lease”) and are projected to be gradually returned to DOE over the next few years. Those facilities and systems required for USEC’s commercial operations for future centrifuge-based uranium enrichment at the American Centrifuge Plant (ACP) are leased to USEC under a “Gas Centrifuge Enrichment Plant (GCEP) lease” and will operate as leased facilities and systems which are not included in the GDP D&D Project.

C.1.2 Portsmouth GDP D&D Project Description

The Portsmouth GDP Life-Cycle D&D Project includes demolition and disposal of all GDP facilities, process equipment, related process buildings, and other ancillary GDP facilities.

The Portsmouth D&D Project includes remediation of contaminated soils and groundwater.[1] The objective is to eliminate the potential for future contaminant release from the Portsmouth GDP site, thereby protecting workers, off-site human health, and the environment. The specific cleanup requirements for the Portsmouth site will be developed and agreed to through active involvement of the public and the regulators.

A total of 415 facilities (including buildings, utilities, systems, ponds and infrastructure units) are currently identified on the Portsmouth site. Of those facilities, approximately 315 are included in the Portsmouth D&D Project. The 315 facilities include133 buildings (nearly 10,600,000ft^2 of floor space) including the three GDP process buildings. In addition to the three very large process buildings, the remaining structures consist of extensive support facilities such as a steam plant, electrical switchyards, cooling towers, cleaning and decontamination facilities, water and wastewater treatment plants, maintenance and laboratory facilities, and office buildings. Finally, the buildings are served and connected by an extensive network of utilities, systems, roads and sidewalks.

The uranium enrichment program utilizing the gaseous diffusion process produced various hazardous, non-hazardous, and radioactive byproducts. These activities resulted in contamination of equipment, facilities, soil and groundwater with radioactive and hazardous constituents. The remedial facility investigation performed by DOE identified 160 Solid Waste Management Units (SWMU) with four (4) quadrants. Forty-one (41) have been identified as Deferred Units (DU), fourteen (14) are either in surveillance and maintenance or undergoing remediation, and the State has issued No Further Action (NFA) decisions for the remaining 105 SWMUs.[2] The type of waste generated from the Portsmouth D&D Project is anticipated to be radiological and non-radiological debris, radiologically and chemically contaminated soils and other hazardous industrial waste.

There is a tentative understanding between DOE and the State regulators on the broad outlines for a Portsmouth site clean-up regulatory framework under Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation and Recovery Act (CERCLA). A RCRA Consent Decree is in place and negotiations are underway to specifically define the CERCLA provisions of the framework. The contractor shall comply with the terms of the requisite Portsmouth regulatory agreements as they are finalized. The proposed D&D and waste disposition evaluations will emphasize public and regulator participation in the regulatory process to select D&D options and a waste disposition approach.

[1] Note: The Portsmouth D&D Project includes remediation of soils and groundwater from a budgeting and cost management perspective. However, the remediation of soils and groundwater are not D&D activities. These remediation activities are conducted under the Ohio Consent Decree and USEPA Administrative Consent Order.

[2] Note: The NFA decisions for Quadrant II have not been formally transmitted, the decisions for quadrants I, III, and IV have been formalized.

The D&D Project at Portsmouth currently is anticipated to be performed under the following regulatory approach:

1) Evaluate site-wide waste management and disposition options, including implementation of any selected action, through the CERCLA remedial action process;

2) Evaluate remedial action alternatives to address complex facilities and structures (e.g., X-333 Process Building), including implementation, through the CERCLA remedial action process;

3) Evaluate removal action alternatives to address the balance of the Portsmouth site facilities and structures;

4) Evaluate and perform remediation of soils and groundwater in accordance with the Ohio Consent Decree and the USEPA Administrative Consent Order. (If an on-site disposal facility is selected and constructed pursuant to the CERCLA process discussed in item 1) above, it is anticipated that the potential exists to request exemptions under ORC 3734.02(G) to allow waste generated from remediation of soils and groundwater under the Ohio Consent Decree and USEPA Administrative Consent Order to be disposed in such a facility.)

In addition to public and regulator participation in the regulatory process, the contractor is responsible for supporting DOE with the Site Specific Advisory Board (SSAB) under the Federal Advisory Committee Act, 5 U.S.C. App. 2, which was established in August 2008 by DOE to offer advice and recommendations for consideration.

C.1.3 Contract Purpose and Objectives

The purpose of this contract includes, but is not limited to, completing the D&D of the excess GDP facilities and characterization and remediation of associated soils. Objectives of this contract include the following:

- Safely and cost effectively transition the Portsmouth GDP from CSD to D&D under the DOE safety basis while maintaining continuity of on-going cleanup operations;
- Work jointly with the SSAB, regulators, and any other stakeholders to define an end state including waste disposal on and/or off site that ensures sustainable economic use of the site and includes consideration of energy park initiatives;
- Finalize and implement an overall approved regulatory D&D cleanup framework;
- Accelerate the current CD-1 estimated cleanup schedule while maintaining public and worker safety and health, environmental protection, and reducing risk; and
- Reduce the overall DOE Portsmouth footprint and landlord costs.

C.2 Description of Project Performance Requirements

The contractor has the responsibility for managing, integrating, and executing the work described in this Performance Work Statement (PWS). The contractor is expected to effectively "projectize" the overall D&D Project, which is defined as further delineation of the life-cycle project into smaller, more well defined subprojects. The Portsmouth D&D Project contains both capital and non-capital asset acquisition activities which will be identified as subprojects. Projects/subprojects are to be managed with all applicable requirements of DOE 413.3A. The contractor shall plan and integrate the PWS activities to be performed during the contract period to optimize the use of projectization. Projectization means organizing the PWS into logical, well defined, manageable subprojects. The contractor shall perform sufficient design work, characterization, end point identification, regulatory approval, risk reduction, etc. to develop a requirements definition for each subproject to allow for firm cost estimating, realistic schedule development, and the establishment of procurement packages. This projectization should lead to performance of the subproject work being performed on competitive fixed price subcontracts, to the maximum extent practicable, prime Federal awards, or other performance based incentive type contract arrangements. The contractor shall be responsible for the integration and management of all subprojects. Each subproject will be subject to DOE Order 413.3A.

The contractor shall maximize efficient and cost effective methods for completing the work scope using the skill sets of the prime contractor as well as subcontractors. This includes making recommendations on the best method of accomplishing the work so that performance might be done by the prime, a subcontractor, or turned over to DOE, if requested, to secure competitive bids while maintaining a single point of responsibility (the prime) and minimizing administrative costs. The contractor is to maximize the use of firm-fixed price subcontracting.

Section J, Attachment 5, provides a comprehensive GDP facilities and site services list that will be updated upon assignment of facilities and/or services by the Contracting Officer (CO) for performance of the PWS elements C.2.2, C.2.3, C.2.4, and site services. The contractor will be the single point of accountability for the Portsmouth D&D Project activities, safety and quality assurance programs, regulatory and DOE-EM interface, and project management in performance of this contract including any subcontracts assigned in accordance with the Section H clause, Assignment and Administration of Subcontracts.

C.2.1 Contract Transition

The contractor shall perform all transition activities consistent with all DOE requirements. Transition activities to be performed include, but are not limited to:

- The contractor shall submit a Contract Transition Plan for DOE approval. The Contract Transition Plan must include a description of all necessary transition activities, involved organizations, and transition schedule and the contractor shall coordinate directly with LPP, TPMC, USEC, DOE, and others to finalize any transition agreements required to assume full responsibility. The Contract Transition Plan must include a communication plan that clearly describes the contractor's approach for performing D&D scope of work with public and stakeholder involvement.

- Within 24 hours following contract award, the successful offeror shall release on its own website a brief Executive Summary of its offer. The purpose of this Executive Summary is to provide immediate release of relevant information to stakeholders and the public at large.

- The contractor shall submit an initial Annual Work Plan that details the work activities to be performed while the contract performance measurement baseline is being evaluated and approved by DOE.

- The contractor shall provide weekly status of transition activities to DOE. The contractor shall establish routine status meetings with DOE and affected contractors to review transition activities and issues.

- In accordance with the Section H clause, Government-Owned Property and Equipment Responsibilities for Contract Transition Period, the contractor shall conduct a joint reconciliation of the Government property inventory with the predecessor contractor. This information shall be used to provide a baseline for this contract, as well as, information to closeout predecessor contracts.

- During the contract transition period and prior to assuming control and responsibility for safeguards and security (SAS) responsibilities, the contractor shall be subject to a DOE SAS initial survey conducted in accordance with U.S. DOE Manual (M) 470.4-1, Safeguards and Security Program Planning and Management. The results of the survey shall be documented and form the basis for DOE authorization to assume SAS responsibilities, in particular, responsibility for Special Nuclear Material (SNM). Following the survey, the contractor shall assume responsibility for all applicable SAS resources, materials, facilities, documents, and equipment.

C.2.2 Facility Surveillance and Maintenance and Stabilization

The contractor shall develop, document, and maintain a Surveillance &Maintenance (S&M) program that includes S&M, operations, and facility stabilization activities as appropriate for all facilities that are within the contractor's responsibility.

The NRC has issued a Certificate of Compliance to USEC that documents the NRC regulatory authority over GDP leased facilities. When GDP facilities are de-leased they are returned to DOE control and regulatory authority. The S&M activities shall be tailored during the facility life-cycle in accordance with DOE Order 430.1B, Real Property Asset Management, and 10 CFR 851, Worker Safety and Health Program. Other areas that may require S&M include closed areas, remediated areas, capped areas (e.g., landfill), open areas, etc.

The contractor shall perform all S&M activities for assigned and occupied facilities including, but not limited to, the following:

- Control access to DOE controlled facilities and areas for which the contractor has been assigned responsibility. Minimize and reduce the occupation of facilities to the maximum extent possible;

- Perform periodic facility inspections including equipment and/or structure;

- Maintain the operability of critical equipment, monitor radiological conditions, and check and maintain safety-related items;

- Provide for facility security controls;

- Assess facility structural integrity;

- Perform daily activities required to sustain property in a condition suitable for its designated purpose;

- Conduct preventive, predictive, and corrective maintenance actions; and

- Perform checks and record pressure on HEU cells in X-326 Process Building (158 cells), conduct S&M of HEU cells; perform Non-destructive Assay (NDA) and uranium analytical services for buffered HEU cells.

The contractor shall perform facility stabilization activities for assigned and unoccupied facilities awaiting D&D. These activities include removal of hazardous process materials/wastes and overall reduction of the hazards associated with the facility. Activities during this phase are intended to support deactivation activities and to maintain the facility safety envelope and long-term requirements on building infrastructure, including modification and/or changes to facility configuration.

The contractor shall perform the necessary facility stabilization activities including, but not limited to, the following:

- Evaluate and determine the need for the continued safety and disposition requirements for monitoring and/or maintaining systems;

- Perform deactivation activities that support the facilities being placed in the facility stabilization configuration, per DOE O 420.1B, Facility Safety; and

- Evaluate and implement utilities optimization plans including re-routing of the utilities.

The contractor shall develop utility optimization plans and obtain the approval of DOE prior to implementation. Such plans shall consider and include current site utilization, end state vision, and shared site agreements with USEC and other site contractors.

C.2.3 Facility Decontamination and Decommissioning (D&D)

The D&D of the facilities includes all man-made structures, and generally includes the following activities: deactivation (utilities isolation, re-routing of the utilities, removal of

hold up materials, etc.), characterization, hazardous material abatement activities, removal of equipment, decontamination, and demolition of structures/components. The facility D&D work is to include demolishing man-made structures/components including building slabs and below-grade features within the immediate building footprint area (waste disposal requirements/disposition activities are described in C.2.5). The D&D work will be performed and completed consistent with regulatory agreements and decisions that may include consideration of specific buildings for re-use. The D&D of below-grade man-made structures shall be coordinated with site cleanup goals and the subsequent remediation of environmental media (i.e. soils remediation activities in C.2.4). The initial phase of a facility D&D will generally address above-grade structures; if soil remediation is not performed immediately the contractor shall perform appropriate activities to stabilize the area and prevent surface water accumulation in sub-grade structures. The stabilization of the area may include leaving the building slab in place until the area is ready for below grade D&D and remediation of contaminated media. In performing the work, the contractor shall coordinate its activities with other site contractors/tenants to avoid and/or mitigate any interference with ongoing site work.

C.2.3.1 X-333 Process Building

The X-333 Process Building is comprised of eight (8) operating units. The contractor is responsible for all activities required to D&D X-333 including, but not limited to, the following activities:

C.2.3.1.1 Regulatory Preparation

The contractor shall prepare the submittal of required regulatory documents to support D&D of the entire X-333 Process Building including:

- Remedial Design and Remedial Action Work Plans, and
- Implementation Plans.

C.2.3.1.2 Material Removal

The contractor shall complete materials and waste (junk) removal and disposal, from the interior of the entire building and shall complete hazardous abatement activities for the entire building.

C.2.3.1.3 Characterization

The contractor shall complete required characterization activities of the entire facility for equipment removal and D&D in compliance with the regulatory documents.

C.2.3.1.4 Deactivation

The contractor shall complete utilities and systems deactivation and isolation as necessary in preparation for equipment removal and facility demolition. The deactivation activities may include the removal of hold-up material in the systems, pipings, ducts, etc.

C.2.3.1.5 Equipment Removal

The contractor shall complete removal of process systems and equipment including systems enclosures (e.g., housings, shielding, and cells).

C.2.3.1.6 Facility Demolition

The contractor shall complete demolition of the entire facility including below-grade man-made features and dispose of all waste.

C.2.3.1.7 Environmental Remediation and Waste Management

The work associated with Soils Characterization and Remediation and Waste Management is contained in C.2.4.2 and C.2.5.

C.2.3.2 X-330 Process Building

The X-330 Process Building is comprised of 11 operating units. The contractor is responsible for all activities required to D&D X-330, including but not limited to, the following activities:

C.2.3.2.1 Regulatory Preparation

The contractor shall prepare for submittal of required regulatory documents to support D&D of the entire X-330 Process Building including:

- Remedial Design and Remedial Action Work Plans, and
- Implementation Plans.

C.2.3.2.2 Material Removal

The contractor shall complete materials and waste (junk) removal and disposal, from the interior of the entire building and complete hazardous abatement activities for the entire building.

C.2.3.2.3 Characterization

The contractor shall complete required characterization activities of the entire facility.

C.2.3.2.4 Deactivation

The contractor shall complete utilities and systems deactivation and isolation as necessary in preparation for equipment removal and facility demolition for the entire building. The deactivation activities may include the removal of “hold-up” material in the systems, piping, ducts, etc.

C.2.3.2.5 Equipment Removal

The contractor shall complete removal of process systems and equipment including systems enclosures (e.g., housings, shielding, and cells).

C.2.3.2.6 Facility Demolition

The contractor shall complete demolition of the entire facility including below-grade man-made features and dispose of all waste.

C.2.3.2.7 Environmental Remediation and Waste Management

The work associated with Soils Characterization and Remediation and Waste Management is contained in C.2.4.2 and C.2.5

C.2.3.3 X-326 Process Building

The X-326 Process Building is comprised of 9 1/2 operating units and an additional ½ unit containing 60 purge cascade stages. The contractor is responsible for all activities required to D&D X-326, including but not limited to, the following activities:

C.2.3.3.1 Regulatory Preparation

The contractor shall prepare for submittal of required regulatory documents to support D&D of the entire X-326 Process Building including:

- Remedial Design and Remedial Action Work Plans, and
- Implementation Plans.

C.2.3.3.2 Material Removal

The contractor shall complete materials and waste (junk) removal and disposal, from the interior of the entire building and complete hazardous abatement activities for the entire building.

C.2.3.3.3 Characterization

The contractor shall complete required characterization activities of the entire facility.

C.2.3.3.4 Deactivation

The contractor shall complete utilities and systems deactivation and isolation as necessary in preparation for equipment removal and facility demolition for the entire building. The deactivation activities may

include the removal of "hold-up" material in the systems, piping, ducts, etc.

C.2.3.3.5 Equipment Removal

The contractor shall complete removal of process systems and equipment including systems enclosures (e.g., housings, shielding, and cells).

C.2.3.3.6 Facility Demolition

The contractor shall complete demolition of the entire facility including below-grade man-made features and dispose of all waste.

C.2.3.3.7 Environmental Remediation and Waste Management

The work associated with Soils Characterization and Remediation and Waste Management is contained in C.2.4.2 and C.2.5.

C.2.3.4 Other GDP Facilities

The work in this section will be performed by developing separate work packages and required regulatory documentation. D&D of the ancillary facilities shall consist of, but not be limited to, regulatory preparation, material removal, characterization, deactivation, equipment removal, facility demolition, and environmental remediation and waste management.

C.2.4 Environmental Remediation

The contractor shall perform Environmental Remediation (ER) work for all SWMUs including S&M and a five year review of completed SWMUs, soil remediation work including soil remediation work following D&D, groundwater remediation, ongoing groundwater monitoring, and pump and treat activities. The contractor shall perform additional ER activities as assigned by the CO from Attachment 5 of Section J, consistent with the work in this PWS. Over the term of the contract, ER work shall be completed in compliance with the Consent Order, Consent Decree, and any other future negotiated agreements.

C.2.4.1 Solid Waste Management Units (SWMUs)

The contractor shall be responsible for all SWMUs identified in Section J, Attachment 4, under DOE control as required by the Consent Decree.

In addition, the contractor shall perform S&M and a five year review of the Completed Remedies listed in Table C-1 below as required by the Consent Decree. Completed Remedies are those remediation activities required by regulatory requirements that have been determined to have met the interim or final clean up standards. Upon completion of facilities D&D and remediation, additional units will be added to S&M and the five year review list. The SWMUs

currently in NFA may require ongoing surveillance and maintenance in accordance with all regulatory requirements.

In addition, the contractor shall:

- Perform periodic (3-5 years) controlled burn of X-611A, Old Lime Sludge Lagoons Area;
- Develop and facilitate the submittal of the regulatory documents for reporting on S&M and review activities to the OEPA; and
- Conduct routine and special inspections (S&M) of the Completed Remedies listed in Table C-1 below:

TABLE C-1: SWMUS REQUIRING S&M AND 5 YEAR REVIEWS

ID Number	Title/Description	*Comment
X-231A	Southeast Oil Biodegradation Plot	Capped (closed)
X-231B	Southwest Oil Biodegradation Plot	Capped (closed)
5 Unit Plume	Groundwater Plume	Extraction Wells
X-611A	Old Lime Sludge Lagoons Area	18 acres prairie, control burn
X-616	Sludge lagoon	Remediated (closed)
X-701B Plume (and X-744Y)	Capped Lagoon and Groundwater Plume	Capped closed, Plume oxidant injection remedy
X-734 A	Sanitary Landfill, Construction Spoils Disposal Areas	Capped (closed)
X-734 B	Sanitary Landfill, Construction Spoils Disposal Areas	Capped (closed)
X-735 A & B	Sanitary Landfill	Capped (closed)
X-740	Groundwater Plume	Phytoremediation Oxidation injection remedy
X-749 North and South (two separate caps)	Contaminated Material Storage Yard	Capped (closed)
X-749/120	Phytoremediation Area/Groundwater Plume	Phase 1 and 2
X-749A	S Classified Burial Yard	Capped (closed)
X-749B	Peter Kiewit Landfill	Capped (closed)

*Note: Mowing of capped landfill areas listed in Table C-1 is anticipated to be performed by the Facilities Support Services (FSS) contractor.

C.2.4.2 Soil Characterization and Remediation

Upon completion of D&D activities, the contractor shall characterize and remediate soils to meet the final remediation levels per the regulatory

agreement(s). Soils remediation may include some below grade man made structures from D&D.

The contractor shall perform soils remediation including, but not limited to, the following:

- Evaluate existing data and characterize further if needed;
- Develop and submit Corrective Measures Study Reports;
- Develop and submit Corrective Measures Implementation Reports;
- Develop and submit Corrective Action Progress Reports;
- Excavate, load, haul, and stage for eventual transportation to appropriate on-site and/or offsite disposal locations;
- Upon completion of soil removal activities, collect soil samples to verify remediation is within acceptable concentrations;
- Compact disturbed areas and restore to match existing site grades consistent with the Restoration Plan (including re-vegetation and stabilization of the area);
- Backfill remediated areas, if required, only after the analytical results of the verification soils samples have been obtained;
- Establish run-on/run-off control to prevent or minimize soil contact with storm water and maintain site drainage throughout all remediation activities;
- Control any liquids collected from the excavation while awaiting sample results in accordance with regulatory requirements;
- Facilitate and support an independent verification of the soils remediation consistent with the DOE-EM policy[3] and coordinate with DOE independent verification; and
- Prepare and facilitate completion reports for submittal to the Ohio Environmental Protection Agency (OEPA) and the U.S. Environmental Protection Agency (USEPA).

C.2.4.3 Groundwater Monitoring and Remediation

C.2.4.3.1 Groundwater Monitoring and Maintenance

The contractor shall conduct investigation, characterization, and development of Preliminary Remediation Goals (PRG) for the remediation of the groundwater. The contractor shall conduct monitoring of groundwater in accordance with the Director's Final Findings and Orders (March 1999) and the Integrated Groundwater Monitoring Plan (IGWMP, August 2007).

[3] DOE P 226.1, DOE Oversight Policy, DOE, 2005; DOE O 226.1, Implementation of Department of Energy Oversight Policy, DOE, 2005; 10 CFR 830.122, Quality Assurance Criteria, Subpart A to Nuclear Safety Management, DOE, 2000

Additionally, the contractor shall:

- Maintain and repair the site groundwater monitoring system including but not limited to painting, welding, concrete pad repair, pump replacement, well replacement, installation, or abandonment in accordance with Ohio EPA guidance;
- Conduct S&M for certain closed/inactive remedial action units per the Director's Final Findings and Orders;
- Operate and maintain the X-622, X-623, X-624, X-627 and X-701E groundwater treatment facilities;
- Conduct sampling and analysis from more than 640 groundwater monitoring and extraction wells; and
- Prepare an annual report to DOE on wells for which maintenance is performed, including waste handling, disposition activities, and recommendations to minimize cost.
- Maintain and move forward with site groundwater strategy and negotiated actions.
- Disposal of the waste generated from groundwater remediation shall be included in C.2.5.

C.2.4.3.2 Groundwater Remediation

The contractor shall perform groundwater remediation activities (including surface water sampling and analysis consistent with the National Pollutant Discharge and Elimination System [NPDES]) in parallel with and as part of the scope described in Solid Waste Management Units (C.2.4.1) and Soils Characterization and Remediation (C.2.4.2).

C.2.5 Waste Management

The contractor shall be responsible for management and disposition of all waste generated by the Portsmouth D&D Project. The contractor shall evaluate project waste management options consistent with the requirements of a future negotiated regulatory agreement. The waste management evaluations shall include public involvement. The waste management evaluations shall include, but not be limited to waste minimization, re-use, waste treatment, recycling, off-site disposal, and potential on-site disposal.

Environmental Remediation activities using the CERCLA process (in accordance with Executive Order 12580, Superfund Implementation) shall comply with the substantive requirements of DOE O 435.1, Radioactive Waste Management and DOE M 435.1-1, Radioactive Waste Management Manual (including disposal facility performance assessment and performance objectives, as well as the composite analysis) through the

CERCLA process. Wastes generated by Consent Decree activities are to be managed in compliance with RCRA.

All waste management activities shall meet the appropriate waste acceptance criteria for approved waste disposition/disposal options.

C.2.5.1 Waste Treatment

It is anticipated that some waste generated during D&D and remediation will require treatment services at other DOE or non-DOE facilities. The contractor may use available DOE national contracts, if available, for treatment of waste.

The contractor shall:

- Perform either on- or off-site treatment, subject to regulatory requirements to meet the waste acceptance requirements for disposal of waste;
- Assume operations of existing Portsmouth waste management facilities/systems in accordance with existing or newly generated approved DOE safety basis;
- Ensure existing treatment facilities remain compliant with all permits, orders, and regulatory requirements;
- Update and maintain the existing Portsmouth Site Treatment Plan and obtain DOE approval;
- Implement treatment requirements in accordance with the Portsmouth Site Treatment Plan, including but not limited to: identify waste streams for on-site and offsite treatment consistent with the Waste Management Plan, obtain necessary permits and support DOE in any regulatory approvals for on-site treatment, prepare waste profiles and characterize waste to meet acceptance requirements for offsite treatment facilities;
- Develop and maintain summary information on waste stream life-cycle projections planned for treatment facilities;
- Develop requests for and obtain DOE approval of exemptions for use of non-DOE facilities for the identified STP waste streams;
- Develop and implement alternatives for waste streams historically sent to the TSCA incinerator, with DOE and regulatory approval; and
- Dispose of treated waste.

C.2.5.2 Waste Handling/Packaging/Hauling and Transportation

The contractor shall perform all activities associated with characterization, packaging, handling and hauling/transportation of waste to various facilities. The

contractor may utilize DOE Government tenders, if available. This includes the transport to off-site and on-site treatment and/or storage facilities and off-site and on-site disposal facilities. All packaging and transportation practices shall be in accordance with applicable federal, state, and local regulations and requirements.

In addition the contractor shall:

- Procure necessary packaging and carrier services for transport to/from treatment facilities and to disposal facilities; and
- Develop appropriate transportation plans, including transportation security plans, for various waste types, obtain appropriate transport permits, and coordinate with DOE transport managers.

C.2.5.3 Off-Site Disposal

It is anticipated that some waste generated during D&D and remediation activities will require off-site disposal. In the event that an On-Site Waste Disposal Facility (OSWDF) is not approved through the public participation and regulatory process, all waste will require off-site disposal. The contractor may utilize DOE national contracts tenders, if available. When off-site disposal is required, the contractor shall:

- Receive and manage the disposal certificates for all wastes shipped off-site;
- Dispose of waste at approved DOE facilities and/or permitted commercial disposal facilities;
- Develop and maintain summary information on waste stream life-cycle projections planned for disposal facilities; and
- Develop requests for and obtain DOE approval of exemptions for use of non-DOE facilities for specific waste streams.

C.2.5.4 On-Site Waste Disposal Facility (OSWDF)

The contractor shall complete a preliminary design and other necessary evaluations of a conceptual OSWDF to support project waste management evaluations and regulatory reviews.

Additional work on a potential OSWDF will be subject to determinations made during the project waste management evaluation and regulatory review process, which will include participation by the local community and stakeholders.

The CO will direct the contractor to proceed with final design based upon the determinations from the waste management evaluation and regulatory review process. The design documents shall include the Certified for Construction (CFC) drawings. In the event that an OSWDF is authorized, the contractor shall

be responsible for completing the necessary activities for development and submittal of regulatory documents and supporting the regulatory approval process for an OSWDF.

C.2.5.4.1 Completion of the OSWDF Preliminary and Final Design

The contractor shall complete the OSWDF preliminary and final designs and submit to DOE for approval. The design activities include, but are not limited to, development of specifications and provisions for borrow or fill materials; development of Waste Acceptance Criteria (WAC) in concert with the facility performance and regulatory requirements; planning for OSWDF waste characterization for waste compliance (sampling and analysis) under the WAC; development of the OSWDF Operations Plan; development and maintenance of an effective quality control/quality assurance program meeting regulatory requirements for design, including final capping and completion of the OSWDF; development of required documentation necessary for the anticipated regulatory submittal and approval cycle including but not limited to the Remedial Design work plans; and deliver a procurement package for construction.

C.2.5.4.2 OSWDF Construction (Option)

If authorized by the CO, the contractor shall develop required documentation necessary for the OSWDF construction for the anticipated regulatory submittal and approval cycle including but not limited to the Remedial Action work plans. The documentation shall support the waste expected to be generated during D&D activities, from the beginning of the implementation of D&D activities, to avoid unnecessary waste liabilities. The contractor shall construct and/or provide construction management oversight of the construction activities. The contractor shall ensure there is an independent organization performing the Title III engineering services.

The contractor shall provide DOE with the acceptance of the Construction Completion Report including final as-built drawings and a report of the deviations from the construction drawings to the as-built drawings.

C.2.5.4.3 OSWDF Startup and Operations (Option)

If authorized by the CO, the contractor shall be responsible for the start-up and operation of the OSWDF under specified and approved plans and controls developed during the regulatory process, including but not limited to: waste placement, waste transport, storm water management, primary leachate and secondary leachate management, waste/soil compaction, dust control, nuclear criticality control, health and safety, security, operations equipment/facility needs and use, and completion.

Prior to start-up and operation, the contractor shall develop and implement appropriate levels of readiness required per DOE O 425.1C, Startup and Restart of Nuclear Facilities. The contractor shall develop and maintain summary information on actual and projected life-cycle waste disposal volumes; develop and implement a waste characterization program for WAC compliance of waste streams at the generating site, within the remediation-site, or at a staging area; form and maintain an independent Waste Acceptance Organization to assure compliance with the WAC; and develop and implement a waste information system including location, date of placement, placed quantities, and waste characteristics.

C.2.5.5 Waste Management Operations

The contractor shall maintain and update the existing Waste Management Plan and obtain DOE approval. The waste types and categories shall be consistent with those specified in the "Waste Management Plan for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio, TPMC/PORTS-60/R1," for example: Low-level radioactive waste (LLW), LLW mixed with RCRA or Toxic Substance Control Act (TSCA) mixed low-level waste (MLLW), TSCA, RCRA hazardous waste, potential Transuranic (TRU) material and other radiological materials, industrial sanitary waste, and classified material (for security and radiological). The Waste Management Plan shall include the evaluation of recycling waste and materials from the Portsmouth D&D Project. The recycling analysis shall include a thorough trade-off analysis of economic, health, safety, and waste volume benefits that could be realized by innovative recycling approaches. The Waste Management Plan shall also include the approaches for minimizing the generation of secondary wastes. The contractor will be responsible for the identification, characterization, packaging, transportation and disposal of any secondary waste that may be generated based on its technical approach.

The contractor shall be responsible for management and disposition of all waste generated by the Portsmouth D&D Project. The contractor shall disposition (including characterization, packaging, and transportation) the waste received from those site contractors as identified in Section J Attachment, Portsmouth D&D Project Site Services and Interface Requirements Matrix. The contractor shall be responsible for storage of USEC generated hazardous waste in accordance with the GDP lease[4]. The contractor shall track the volume, type of waste, cost, and disposal locations of each type of waste.

The contractor shall ensure operations of storage areas or facilities comply with all permits, orders, and regulatory requirements. The contractor shall, to the extent possible, minimize the number of facilities and waste/materials in storage.

[4] GDP Lease, Exhibit C, Memorandum of Agreement between USDOE and USEC for Environmental and Waste Management, dated July 1, 1993

C.2.6 Nuclear Material Storage, Disposition and Accountability

The contractor shall:

- Create, maintain, and provide a single, integrated Nuclear Materials Control and Accountability (NMC&A) Plan, consistent with the safety requirements stipulated under sections C.2.7.3 and C.2.7.7, for use by Portsmouth site contractors performing NMC&A activities;
- Manage and conduct a centralized NMC&A Program for all accountable quantities of nuclear material on the Portsmouth site;
- NMC&A activities include warehousing, surveillance, characterization, planning, brokering, packaging, consolidation, preparation, and shipping of the inventory of depleted, normal and enriched Nuclear Materials;
- Be responsible for the final disposition, as directed by DOE, of all remaining Nuclear Material inventory including product and waste. The dispositioning of the Nuclear Material Product includes, but is not limited to, relocation to other DOE sites or DOE contractors for storage/programmatic use and/or sale to the private sector and/or disposal; and
- Provide necessary reports and information to support DOE-HQ Nuclear Materials Management and Safeguard System (NMMSS).

The contractor shall manage and operate DOE Material Storage Areas (DMSA) operations within the Portsmouth site. The DMSAs are storage areas for DOE materials in USEC leased areas. Currently, there are approximately 45 DMSAs (Section J Attachment, Current DMSAs). The number of DMSAs will vary depending upon the contractor's activities.

The contractor shall, operate the material storage areas and facilities in accordance with the current safety basis, as well as applicable legal and regulatory requirements. The contractor shall be responsible for completing or developing any safety basis documents not otherwise available at contract transition.

C.2.7 Project Support

The contractor shall provide all project support activities necessary to perform the PWS.

The contractor shall assume responsibility for any and all site services assigned by the CO during contract performance. Section J, Attachments 5 and 7, will be adjusted to identify those site services that are under DOE control. The contractor shall be responsible for laundry services for work performed under the PWS. The contractor shall also provide these services to the ETS and FSS contractors and DOE.

The contractor shall provide all necessary support for smooth contract transition at the end of the contract period. Six (6) months prior to the expiration of the contract period, the contractor shall submit the Contract Close-out Plan. The Contract Close-out Plan shall include all remaining administrative matters necessary to close out the contract, including, but not limited to: resolution of remaining and open agreements, resolution of remaining and open litigation; audit of indirect costs; remaining records disposition

required by the Government; or any other activities required by Section I, FAR 52.216-7, Allowable Cost and Payment.

C.2.7.1 Project Planning, Integration and Interface

The contractor shall be responsible for the planning and integration of all site-wide, cross-cutting activities necessary for the accomplishment of the PWS. These activities occur during both the base and option (if exercised) periods of the contract. These activities include, but are not limited to, the following:

C.2.7.1.1 Planning and Integration

The contractor shall be responsible for assisting DOE in planning and integration of the Portsmouth D&D Project activities. The contractor shall evaluate, maintain and update the Master Plan (and obtain DOE approval) which establishes and maintains interface management processes and agreements to assure effective control of technical, administrative, and regulatory interfaces.

The Master Plan shall provide the content for and processes to:

- Coordinated site end state agreement with SSAB, regulators, and any other stakeholders,
- Identify the various interfaces, define the scope of each interface, provide a brief description of the required deliverables (products, documents, procedures, services, etc.), define interface requirements, and cite applicable source documents for each interface;
- Implement changes to interface agreements through the appropriate change control process and, if necessary, contract changes; and
- Identify, track, and elevate issues for management review on a regular basis.

The Master Plan shall include:

- Organizational points of contact for participants and their responsibilities;
- Associated controlling agreements (e.g., an MOA); and
- Maps, comprehensive site-wide facilities and SWMUs lists, and a schedule and status of facility transition/transfer, maintenance status, D&D and remedial action activities.

The Master Plan shall be signed by the contractor, ETS contractor, FSS contractor, and USEC. The contractor will submit the document to

DOE for review and approval. The Master Plan shall be reviewed at least annually, and if unchanged, submitted to DOE for information; if changed, submitted to DOE for approval.

The contractor shall establish, appropriately document, and manage interfaces in accordance with the Section J Attachment, Portsmouth D&D Project Site Services and Interface Requirements Matrix. The contractor shall update Portsmouth D&D Project Site Services and Interface Requirements Matrix, as appropriate, consistent with the approved changes that may occur during the contract period.

The contractor shall ensure that Long-Term Stewardship (LTS) issues are considered in the planning and execution of the activities described in this PWS to (1) ensure the site's successful transition to future LTS, and (2) assist DOE with LTS planning, transition coordination, and communication with all involved parties, including local stakeholders and regulators.

The contractor shall ensure that issues associated with energy park activities and transfer or leasing of land, facilities, and other assets from DOE to other parties are considered in the planning and execution of the PWS.

The contractor shall plan and integrate the PWS activities to be performed during the contract period to optimize the use of "projectization." The objective of "projectization" as defined in section C.2 is to plan the work in a manner that distinct projects can be defined that will provide the most effective and efficient execution of the work from a technical, schedule, and cost perspective. The contractor shall evaluate the options and efficiencies for conducting the work activities for performance by subcontractors and for performance by the contractor's employees. Where practicable, projects which can be well defined with performance-based statements of work are expected to be performed on a fixed-price basis by competitively selected specialty subcontractors using best commercial practices. In conducting purchasing and subcontracting activities, the contractor shall achieve strong technical and price competition; solicit and award subcontracts using the best commercial practices; produce high quality, safe and timely performance; and provide the maximum practical opportunity for small businesses. These projects will be identified in the Master Plan, project baseline, and Annual Work Plans submitted to DOE for approval. Whenever work is to be performed by a subcontractor, the contractor is not relieved of any of its responsibilities contained in the PWS, legal and regulatory requirements, or other provisions of the contract. The contractor shall also establish and require a "flow-down" process to ensure that subcontractors comply with contract requirements and policies. Consistent with other provisions of the

contract, certain of these projects may be selected by DOE for competitive awards to other prime contractors.

C.2.7.1.2 Regulatory Planning

The contractor shall assist DOE with its expert knowledge and services to support DOE's interaction with regulators, the development and implementation of regulatory strategies, and the public comment process related to required regulatory documents and agreements. The current understanding of the anticipated regulatory framework for the Portsmouth D&D Project is summarized in Section 1.2 of this PWS.

The contractor shall prepare regulatory documents including, but not limited to, CERCLA documentation and/or RCRA documents required per the regulatory agreement(s) for the Portsmouth D&D Project. The contractor shall develop the necessary CERCLA documentation culminating in regulatory decision documents such as Action Memoranda and Record of Decision(s) (ROD), and develop and implement the necessary subsequent work plans under the agreed-upon CERCLA process for the facilities D&D and waste disposition, including a potential OSWDF, if approved.

The contractor shall develop the necessary RCRA documentation consistent with the Consent Decree for soils and groundwater remediation. In addition, the contractor is responsible for developing and coordinating all regulatory documentation necessary to support other on-site activities (e.g., sampling, monitoring, waste treatment, disposal, storage).

C.2.7.1.3 Facility Transfer

Prior to transfer of any facilities by USEC to DOE, the contractor shall prepare for the transfer of these facilities. The pre-transfer process activities shall include, but not be limited to, performing pre-transfer walk-throughs, reviewing pre-transfer checklists, identifying and developing transfer endpoint criteria, reviewing facility transfer plans, verifying transfer readiness, and verifying the post transfer punch-lists, establishing appropriate safety documentation, obtaining resources to perform the necessary surveillance and maintenance and facility stabilization activities.

For any facilities under the control of USEC, the contractor shall assist DOE in the facility de-lease and transfer process. The DOE maintains the authority for the acceptance of any facilities de-leased from USEC.

Facilities may subsequently be transferred to the contractor either in the base period or option (if exercised) period of the contract. Facilities under USEC will require de-leasing and assumption of DOE regulatory authority. Other facilities are under the control of other DOE contractors and are already under DOE regulatory authority. Any

contractual transfer or assignment of additional facilities will be directed by the CO. The contractor shall maintain and disposition any facilities transferred to the contractor in accordance with the applicable sections of the PWS.

C.2.7.1.4 Sitewide Interface

It is critical for the success of the Portsmouth D&D Project activities that the contractor interfaces and coordinates with other entities on-site while performing the work.

The contractor shall coordinate and interface with USEC and other site contractors while performing the work in accordance with Section J Attachment 7, Portsmouth D&D Project Site Services and Interface Requirements Matrix. The Portsmouth D&D Project Site Services and Interface Requirements Matrix identifies the key specific tasks and services that require interface and coordination with other site entities. The Portsmouth D&D Project Site Services and Interface Requirements Matrix may not represent all of the necessary interactions; therefore, the contractor is responsible to reach agreement with other site entities on any other necessary interfaces and/or the provision of services for the performance of the contractor's work. The contractor shall plan for and support transition to any follow-on contractor.

C.2.7.2 Project Management

In addition to preparing Performance Measurement Baselines (PMB) and project baseline documentation for each capital asset acquisition project as required by DOE O 413.3A, the contractor shall develop the Portsmouth D&D Project activities PMB. The contractor shall provide all management and technical information to:

- Support DOE in meeting any applicable requirements of DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets and associated DOE 413.3 guidance documents;
- Support the budget formulation activities including, but not limited to, emerging work items list; budget formulation input (including Integrated Priority List), fall limited budget update submission, budget scenario development, and, budget presentations (such as public and regulatory briefings, etc.);
- Meet the data requirements of the DOE Integrated Planning, Accountability and Budgeting System;
- Support audits, evaluations, and external technical reviews; and
- Support other DOE project performance assessments and information needs.

All project management information developed under this contract shall be accessible electronically by DOE.

In support of the Portsmouth Site Integrated Baseline development by the ETS contractor, the contractor shall provide the baseline information to the Portsmouth ETS contractor.

The contractor shall develop annual work plans and baselines for work to be performed during the succeeding year. These plans shall be resource loaded and define in detail the work to be performed, including technical, cost, schedule requirements, and performance milestones based on the latest funding level (or projections) and current progress of the project. They will be consistent with the approved PMB and baseline control process, Master Plan, DOE programmatic and budget guidance, regulatory agreements and requirements, and other direction, if any, from the CO or Contracting Officer's Representative (COR). The annual work plans shall be submitted for approval.

The contractor's initial annual work plan shall detail the work activities to be performed, be resource loaded, and consistent with the final proposal submitted. The initial annual work plan will be used to authorize work until the PMB is approved. Subsequent annual work plans will add depth and definition to the approved PMB.

The contractor shall support the annual budget process by working with DOE and other prime contractors as appropriate in the development of budgets, schedules, data sheets, analysis and justifications and other such information as may be required. The project control system shall be compatible with the DOE and contractor financial accounting systems to ensure consistent cost reporting.

The contractor shall meet the data and reporting requirements of the DOE Integrated Planning, Accountability and Budgeting System and provide project performance reports against the PMB.

Project Integration, Control, and the Earned Value Management System

The contractor shall prepare and submit for DOE approval, a Project Execution Plan (PEP), for each capital asset acquisition project consistent with the requirements in DOE O 413.3A, and associated guides. The PEP shall describe the approach for managing and controlling all activities necessary to execute the associated capital asset acquisition project. Each PEP shall describe contractor policies, methods, and approach to provide integration and control of scope, schedule and cost information.

The contractor shall provide as an attachment to the PEP, a Project Control System Description that complies with the requirements of DOE O 413.3A and associated guides, and American National Standards Institute (ANSI)/Electronic Industries Alliance (EIA)-748-A (current version) Earned Value Management Systems (EVMS).

The Project Control System Description shall describe the management processes and controls that shall be used to implement an EVMS, manage and

control work, and complete contract requirements. The Project Control System Description shall include:

- The baseline development process and the hierarchy of documents that shall be used to describe and maintain the Portsmouth D&D Project Performance Measurement Baseline (PMB) and each capital asset acquisition project PMB (see PMB below);

- The process the contractor intends to use for earned value management, change control, configuration control, interface control, and document control;

- The organizational breakdown structure, including roles and responsibilities of each major organization and identification of key management personnel; and

- A list of project software the contractor proposes to use for project control.

The contractor shall comply with the requirements of the Section I Clause, FAR 52.234-4, Earned Value Management System, and have, if not already third party certified, the EVMS evaluated against the ANSI standard by a qualified and independent third party. DOE will conduct a compliance review of the contractor's proposed EVMS for compliance with ANSI/EIA-748 (current version) per DOE O 413.3A. The contractor shall submit documentation or evidence of formal validation of their EVMS with the proposal. The offerors formally validated EVMS shall be both current and valid. In the absence of a validated EVMS that is applicable, the contractor shall submit an EVMS Certification Plan to DOE with the proposal and the contractor shall successfully gain EVMS certification within six (6) months of contract award. Subsequent to the initial evaluation and certification, DOE may at any time conduct an EVMS surveillance review to verify continued compliance and certification. The contractor shall provide all necessary support to conduct the initial and any subsequent evaluations and completion of all corrective actions.

The contractor shall flow down EVMS requirements in accordance with the Section I Clause, FAR 52.234-4, Earned Value Management System.

Performance Measurement Baseline (PMB)

The PMB for the D&D Project baseline and each capital asset acquisition project is an integrated and traceable technical scope, schedule, and cost baseline. The contractor shall submit the D&D Project PMB to DOE for review and approval. Each capital asset acquisition project PMB is also subject to a validation review prior to acquisition executive approval of the DOE O 413.3A, Project Performance Baseline. The PMB shall include the following:

- Technical Scope. The following baseline documents shall be viewed collectively as the technical scope for the cost/schedule control system:

- Contract PWS and other sections that define work scope and requirements;

- Site Services and Interface Requirements Matrix;

- WBS dictionary sheets required to a WBS level to be determined by DOE.

- Schedule at a WBS level to be determined by DOE; and

- Time-phased, life-cycle cost estimate at a WBS level to be determined by DOE.

The PMB shall comply with the following requirements:

- The scope, cost, and schedule shall be linked through utilization of the WBS provided by DOE or as otherwise approved by DOE. The WBS shall provide the structure for all project control system components, including estimating, scheduling, budgeting, and project performance reporting, as required under this contract. Control accounts within the WBS shall be identified.

- The baseline and management thereof shall comply with ANSI/EIA-748 (current version) Earned Value Management Systems (EVMS), DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets and associated guides.

- The schedule shall:

  - Include all significant external interfaces, all project milestones, regulatory documents and processes, other regulatory and Defense Nuclear Facility Safety Board (DNFSB) commitments, and Government-Furnished Services/Information (GFS/I) dependencies.

  - Be an integrated, logical network-based plan that correlates to the WBS and is vertically traceable to the EVMS control accounts. The schedule shall be capable of summarizing from control accounts to higher WBS levels.

- Any additional working level schedules deemed necessary by the contractor shall be integrated with the PMB and able to provide earned value reporting in compliance with ANSI/EIA-748 (current version), Earned Value Management Systems (EVMS).

- The cost estimate shall include project resource plans, detailed resource estimates, basis of estimates, budgetary requirements, and identification of direct costs, indirect costs, management reserve, and fee.

- The method used to determine earned value shall be identified for each control account.

- The baseline shall be accessible to DOE at any time through access to electronic files.

- The PMB shall integrate with

  - Financial system(s) for consistency and accurate reporting of information with traceability to budget and report codes;

  - DOE, Congressional, and external commitments.

- Performance milestones including contract performance incentives and other performance measures established by DOE.

- Have the ability to integrate PMB into the site wide life-cycle PMB that includes other site activities including UDS, USEC, infrastructure, and DOE activities.

The contractor shall develop and maintain an annual and multi-year PMB consistent with the "Near-Term Performance Baseline" and “Out-year Planning Estimate Range (OPER)” concept in which the near term, first five (5) fiscal years, is addressed in greater level of detail than the OPER in the following years. The PMB shall be developed to achieve review and validation of the Near-Term Performance Baseline and verification of reasonableness of the OPER by the DOE External Independent Review.

The contractor shall develop the Portsmouth D&D Project baseline in which the PMB is the major focus. The Portsmouth D&D Project baseline shall support DOE’s budgeting and strategic planning process.

Performance Measurement Baseline Submittals

Prior to the completion of the contract transition period, DOE will provide work direction that will be in effect from initiation of the base period until DOE approval of the contractor’s PMB submittal.

The contractor shall develop and submit the PMB.

The PMB shall include:

- Detailed technical scope, schedule, and budget for work to be performed.

- A working-level of detail for the current period through up to three fiscal years as directed by DOE to support submittal of the next budget, including sufficient detail to govern execution of the contract work scope for that period.

- A planning level of detail which starts with the next fiscal year and addresses contract work and the remaining Portsmouth D&D Project life-cycle, including sufficient detail to support budget submittals and out-year planning.

- Sufficient detail through the upcoming five year period to support DOE External Independent Review.

The PMB submittal shall include both hard copies and electronic files for the:

- WBS and WBS Dictionary Sheets at the level in which the costs are collected,

- Time-phased cost estimate at a WBS level to be determined post-award by DOE,

- Basis of estimate at a WBS level to be determined post-award by DOE, and

- Time-phased resource-loaded schedule at a WBS level to be determined post-award by DOE.

The contractor shall provide the WBS, WBS dictionary data, and basis of estimate data in either Microsoft Word© or Microsoft Access© format. Cost data shall be provided in Microsoft Access© or Excel© format and the schedule shall be provided utilizing the current version of Primavera Systems, Inc., Enterprise for Construction© software unless agreed to otherwise by DOE.

The contractor shall provide additional data that may be required by the ETS contractor for development of the Portsmouth site-wide life-cycle baseline.

The contractor shall support DOE External Independent Review and Energy Systems Acquisition Advisory Board (ESAAB) review of the PMB.

Performance Measurement Baseline Change Control Process

The change control process shall be sufficiently rigorous and disciplined to ensure that the PMB is accurate, up-to-date and capable of providing meaningful data and information.

The contractor shall:

- Develop and submit for DOE approval, a Portsmouth D&D Project PMB change control process document with change authorities consistent with the approved Project Execution Plan and DOE O 413.3A Program and Project Management for the Acquisition of Capital Assets.

- Implement the change control process with the PMB used as the reference for all baseline changes.

The contractor's PMB change control process shall be consistent with the DOE change control process and shall reflect levels of approval for actions with DOE thresholds and any constraints on moving funds from one PBS to another.

Performance Reporting

The contractor shall submit a Monthly Performance Report representing the prior month's performance for each capital asset project and transmit it to DOE by the last Tuesday of each month. The Monthly Performance Report shall be a written report that includes, but is not limited to, the following:

- Provide relevant and required data, information, and electronic files for input/upload into the DOE's Project Assessment and Reporting System (PARS) for each capital asset project.
- Program/Project manager narrative assessments.
- Significant accomplishments and progress towards completion of contract goals and objectives.
- Major issues including actions required by the contractor and DOE.
- Status and corrective actions from the previous month.
- Statused baseline schedule, which reflects progress against the baseline and includes variance discussion(s), and potential issues related to significant milestones;
    - Contract estimates-to-complete, Estimate at Completion (EAC) for each project; Total Estimated Cost (TEC) (including fee); and
    - Change control section that summarizes the scope, technical, cost, and/or schedule impacts resulting from any implemented actions; and that discusses any known or pending baseline changes and utilization of management reserve.
- Analysis of funds expenditure, with projections for the D&D Project by fiscal year and life of the contract, including Estimate to Complete (ETC)/EAC for "not to exceed funding" analysis.
- Evaluation of safety performance (including Integrated Safety Management System (ISMS) metrics and all recordable injuries, lost-time injuries, and near-misses).
- Evaluation of performance metrics for key services provided under this contract.
- Evaluation of the condition of infrastructure and utilities, including facilities, equipment, and systems.
- Risk Assessment including identification of critical risks, actions planned, and actions taken to address those risks, potential problems, impacts, and

alternative courses of action, including quality issues, staffing issues, assessment of the effectiveness of actions taken previously for significant issues, or the monitoring results of recovery plan implementation.

- Actions required by DOE including GFS/I and DOE decisions.

The contractor shall participate in a monthly contract/project review and be prepared to address any of the information in the monthly report and other information as requested by DOE. A weekly contract or project status meeting shall be conducted at DOE request to provide interim updates and address issues.

The contractor shall prepare and submit the Annual Self Assessment Performance Report. The Annual Self Assessment Performance Report shall include a comprehensive review of project performance that critically analyzes the overall status of the baseline, any key metrics, and cost. This review shall include overall narrative summaries, analysis of schedule trends and project float, critical path performance, analysis of critical manpower skills of other resources, budget and funding figures, and project risk updates. The Annual Self Assessment Performance Report may be used for the evaluation of the fee determination by DOE.

Risk Management

The contractor shall implement a risk management process and submit a Risk Management Plan to DOE for approval. The Risk Management Plan shall be in compliance with CRD O 413.3A, Program and Project Management for the Acquisition of Capital Assets; and EM policy guidance, Policies for Environmental Management Operating Project Performance Baselines, Contingency and Federal Risk Management Plans, and Configuration Control, dated July 10, 2006.

The Risk Management Plan shall:

- Specify the use of probabilistic risk analysis using Monte Carlo simulation at a 50% and 80% confidence level.

- Identify the engineering and technology needs that are required to reduce the risk and uncertainty associated with the program or project.

- Include Qualitative and quantitative analysis and mitigation plan: address scenario development, risk strategy, risk communication, risk analysis, risk schedule to indicate both when the risk may develop and be mitigated, and the recommended management reserve required to adequately address contractor-controlled risk.

- Include metrics to determine effectiveness.

The Risk Management Plan shall be updated and submitted with the Annual Self Assessment Performance Report. Risk and decision management activities shall be reviewed on a continuing basis with DOE and other Portsmouth site contractors. Contractor risk analysis information pertaining to "cross-cutting" decisions shall be communicated to DOE and other Portsmouth site contractors, including agreement as to who should have the risk management lead to mitigate identified risk.

C.2.7.3 Environment, Safety, Health, and Quality

The contractor shall take necessary actions to preclude serious injuries and/or fatalities; keep worker exposures and environmental releases as low as reasonably achievable below established limits; minimize the generation of waste; and maintain or increase protection to the environment and public and worker safety and health. The contractor shall be responsible for providing medical services for its employees. Medical services include, but are not limited to, the ability to respond to first aid, accidents, injuries, and other incidents that require protection of the employee's health and safety (H&S) while performing work. The contractor shall provide technical support to DOE for annual reports to Congress on ES&H conditions. The contractor shall be responsible for providing personnel monitoring, H&S equipment and maintenance, dosimetry service, and other programs and services described below, except as indicated otherwise, to FSS and ETS contractors.

C.2.7.3.1 Integrated Safety Management System (ISMS)

The contractor shall develop and implement an ISMS that complies with the Section I Clause, Integration of Environment, Safety, and Health into Work Planning and Execution, and DOE Order 450.1. The contractor's ISMS program shall ensure all work is performed safely and in a compliant manner that assures the workers, public, and environment are protected from adverse consequences. The contractor shall periodically review and continuously improve the ISMS.

The ISMS program shall include a lessons learned program that is compliant with DOE Order 210.2. The lessons learned program shall be structured to identify and apply available lessons in safety, quality and performance to this project as well as to capture, document, and provide lessons learned from this project for future application by others.

C.2.7.3.2 Nuclear and Non-Nuclear Safety

Upon transition of the facilities from USEC to DOE, the contractor shall have processes in place to assume operation of nuclear category facilities, and utilize the existing Basis of Interim Operation (BIO). The contractor shall obtain DOE approval of the safety basis documents prior to assuming S&M of the facilities. The contractor shall develop and implement Documented Safety Analysis (DSA) for the D&D and remediation activities for nuclear and non-nuclear facilities. The

contractor shall develop documented safety analysis and safety documentations in accordance with the DOE STD 1027 for the hazard category 1, 2, and 3 facilities.

The contractor shall comply with 10 CFR 830, Subpart B (referred to as the nuclear safety management rule) for category 1, 2, and 3 nuclear facilities and nuclear activities that are included in this PWS. The contractor shall develop and maintain safety basis documentation in accordance with the nuclear safety management rule. The contractor shall have programs and procedures that implement the requirements associated with the nuclear safety management rule.

C.2.7.3.3 Nuclear Criticality

The contractor shall implement a Nuclear Criticality Safety (NCS) program for hazard category 2 nuclear facilities that store, handle, and/or process fissile material. The NCS program shall be described in safety basis documents in accordance with 10 CFR 830, Nuclear Safety Management. The NCS program shall meet DOE O 420.1B, and implement the following standards including, but not limited to:

- DOE-STD-3007, Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reactor Nuclear Facilities;
- DOE-STD-1134, Review Guide for Criticality Safety Evaluations, American National Standards Institute (ANSI)/American Nuclear Society (ANS)-8.3-1997, Criticality Accident Alarm System;
- DOE-STD-1158, Self Assessment Standard for DOE Contractor Criticality Safety Programs;
- DOE O 5480.20A, Personnel Selection, Qualification and Training Requirements for DOE Nuclear Facilities; and
- ANSI/ANS-8.3-1997.

C.2.7.3.4 Radiation Protection, Radiological Site Services

The contractor shall develop and maintain its own Radiation Protection Program for DOE approval or adopt an existing DOE approved Radiation Protection Program. If the contractor develops its own Program, it shall be compliant with 10 CFR 835.

The contractor shall develop and maintain its own radiological site services (RSS) programs for DOE approval or adopt an existing DOE approved RSS program. In the RSS programs, the contractor shall include all DOE technical support, dosimetry, data, and records necessary to demonstrate compliance with the required radiological monitoring and to verify the adequacy of site radiological control programs in protecting the health and safety of workers, the public, and the environment.

RSS includes, but is not limited to, the following components: the Portsmouth External Dosimetry Program (PEDP), the Portsmouth Internal Dosimetry Program (PIDP), the Portsmouth Radiological Instrumentation Program (PIRP), and the Portsmouth Radiological Records Program (PRRP).

C.2.7.3.5 Industrial Hygiene

The contractor shall perform work in accordance with 10 CFR 851. The contractor's safety program shall include the appropriate hazard analyses, work permits (as applicable), industrial hygiene monitoring, and trained safety specialists. The contractor shall manage and perform work in accordance with a documented safety management system.

C.2.7.3.6 Quality Assurance/Quality Control

The contractor shall implement a DOE-approved Quality Assurance Program (QAP) in accordance with the EM Quality Assurance Program, EM-QA-001, prior to commencement of work affecting nuclear safety. The EM QAP provides the basis to achieve quality across the EM complex for all mission-related work while providing a consistent approach to Quality Assurance (QA).

EM requires that American Society of Mechanical Engineers (ASME) NQA-1, 2004, *Quality Assurance Requirements for Nuclear Facility Applications*, and addenda through 2007 be implemented as part of the contractor's QA Program for work affecting nuclear safety. The required portions of NQA-1 to be implemented include: Introduction, Part I, and as applicable portions of Part II. NQA-1 Parts III and IV are to be used as guidance for the contractor's QAP and implementing procedures.

Contractors have three options for complying with this contract requirement:

1. Develop and submit for DOE approval a new QAP;

2. Adopt the prior contractor's DOE-approved QAP; or,

3. Modify the prior contractor's DOE-approved QAP and submit it for DOE approval.

Development of a new QAP, or adoption of an existing or modified version of a QAP from a prior contractor, does not alter a contractor's legal obligation to comply with 10 CFR 830, other regulations affecting quality assurance (QA) and DOE Order 414.1C.

The contractor's QAP shall describe the overall implementation of the EM QA requirements and shall be applied to all work performed by the contractor (e.g., research, design/engineering, construction, operation, budget, mission, safety, and health).

The contractor shall develop and implement a comprehensive Issues Management System for the identification, assignment of significance category, and processing of nuclear safety-related issues identified within the contractor's organization. The significance assigned to the issues shall be the basis for all actions taken by the contractor in correcting the issue from initial causal analysis, reviews for reporting to DOE, through completion of Effectiveness Reviews if required based on the seriousness of the issue.

The contractor shall, at a minimum, annually review and update as appropriate, their QAP. The review and any changes shall be submitted to DOE for approval. Changes that reduce the level of commitments affecting nuclear safety shall be approved before implementation by the contractor.

C.2.7.4 Regulatory Compliance and Permits

The contractor shall:

- Establish and document an environmental program that is compliant with all applicable laws, regulations, and DOE directives (including DOE O 450.1, Environmental Protection Program); and
- Comply with all existing regulatory agreements and permits and renew existing permits and/or obtain new permits as necessary in accordance with the Section H clauses, Allocation of Responsibility and Liability for Contractor and United States Department of Energy, and Environmental Responsibility.

The contractor shall comply with the following:

- State of Ohio Consent Decree issued in August 1989, as amended (Civil Action Case #C2-89-732);
- USEPA Region V Administrative Order issued by Consent, under the authority of Section 3008(h) of RCRA, as amended (1989, 1997, and 1998);
- 40 CFR 300: National Oil and Hazardous Substances Pollution Contingency Plan;
- 40 CFR 302: Comprehensive Environmental Response, Compensation and Liability Act (CERCLA);
- 42 U.S.C. Section 6928(h) and 106 (a) of CERCLA, as amended;

- 42 U.S.C. Section 9606(a), September 1989 (amended in 1994 and 1997, Docket #OH7 890 008 983);
- TSCA Federal Facilities Compliance Agreement, 1992, as amended;
- RCRA Part B Storage Permit, August 1995;
- Director's Final Findings & Orders for the Integrated Units (IGWMP and S&M Plan), 2007;
- Director's Final Findings & Orders for the Site Treatment Plan, 1995; and
- Director's Final Findings & Orders for DUF6 (for small cylinders), 2005.
- Any other statutory or regulatory documents including, but not limited to, other applicable environmental laws, regulations, agreements, orders, permits, or consent decrees.

C.2.7.5 Sampling, Analysis, and Data Management

An RCRA Facility Investigation (RFI) has been conducted for the Portsmouth site. The contractor shall review the existing data and evaluate further data requirements for additional characterization in preparation for D&D and remediation of the work described in the PWS.

The contractor shall:

- Collect, evaluate, and manage the characterization data, including performing sampling and analysis of all media, managing samples and analytical data, and validating analytical data; and
- Perform all activities per the appropriate regulatory requirements to ensure the project objectives are met including, but not limited to:
  - Chain of Custody,
  - Data Quality Objectives,
  - Sampling and analytical methods, and
  - Sample Analysis, data management, and reports.

C.2.7.6 Environmental Monitoring and Reporting

The contractor shall perform activities required for environmental monitoring and reporting for the Portsmouth D&D Project. The contractor shall perform monitoring, reporting, tracking, trending, and evaluation of enforcement and compliance activities associated with environmental media. The contractor shall prepare environmental permits, licenses and applications. In compliance with the regulatory agreements, the contractor shall implement environmental monitoring programs, including sampling and analysis, reports, maintenance, repair, and operation of all CO assigned monitoring systems and stations. In addition, consistent with the DOE O 231.1A, Environment, Safety and Health Reporting and DOE 5400.5, Radiation Protection of the Public and Environment, the contractor is responsible for collecting, compiling, and/or integrating data,

reporting and documentation of environmental media obtained from operations and other activities to develop and submit the Annual Site Environmental Report (ASER) and the annual NESHAP report.

C.2.7.7 Security

The contractor shall implement the security program developed by the FSS contractor. The contractor shall coordinate and interface with the FSS contractor to ensure compliance with the security program requirements (see Section J, Attachment 7). The FSS security program includes, but is not limited to, Portsmouth Site Security Plan, Security Management Plan per DOE M 470.4-1, Safeguards and Security Program Planning and Management and Design Basis Threat (DBT) Policy per DOE O 470.3 and the Contract Security Classification Specification (CSCS) (DOE Form 470.1) attached to this contract (Section J, Attachment 14).

C.2.7.8 Cyber Security

The Cyber Security Program and implementation of the program is provided by the FSS contractor. The contractor shall support the FSS contractor in complying with DOE N 205.1, Department of Energy Cyber Security Management Program and 206.4, Personal Identity Verification Program, which includes, but is not limited to, classified cyber security, unclassified cyber security, and telecommunications security.

C.2.7.9 Records Management and Document Control

The contractor shall prepare a Records Management Plan consistent with the site wide records management program. The contractor shall implement a records management program developed by the FSS contractor in compliance with the requirements for managing records in all formats, including early capture and control throughout their lifecycle in accordance with DOE O 243.1, Records Management Program and DOE O 243.2, Vital Records.

The contractor shall be responsible for developing and maintaining sound document control systems and processes ensuring efficient tracking and retrieval of documents and information.

The contractor shall support DOE compliance with the Freedom of Information Act (FOIA), Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA) and litigation discovery efforts including document scanning and records retrieval from on-site storage facilities.

C.2.7.10 External Affairs

C.2.7.10.1 External Affairs

External Affairs includes information and involvement programs to reach diverse external parties interested in the Portsmouth site (e.g., Tribal Nations, stakeholders, news media, elected officials and their staffs, local community officials and the public) with the status, challenges and objectives of the cleanup work. For all external constituencies, the contractor shall anticipate specific areas of concern, interest, or controversy, and employ appropriate communication strategies that inform and involve.

The contractor shall submit an External Affairs Program Description for DOE approval that provides a comprehensive description of the External Affairs Program, staffing, products and services, with an emphasis on innovative approaches to communications.

The DOE retains the primary role in directing the timing, substance and form of public information and must approve all products and outreach.

For activities within the contract scope, the contractor shall:

- Maintain effective interactions with local, regional, national and international news media. Provide information and/or resources as requested in support of DOE media interactions.
- Work with DOE to inform and involve the Tribal Nations as part of cleanup decision making processes, in accordance with the DOE American Indian and Alaska Native Tribal Government Policy and implementation guidance. Support and coordinate with DOE on the ongoing technical-staff interactions to ensure that affected tribes can be involved early and often in proposed plans and activities.
- Inform and involve the public, citizens advisory boards, and other interested parties in proposed plans and activities. Provide strategy and resources for required public comment and outreach processes related to upcoming decision making (e.g.,RCRA and CERCLA).
- Reach out to the communities affected by the Portsmouth site to provide information, answer questions, and gain feedback.
- Participate in tour planning and preparation, and make facilities and personnel available as requested by DOE. Visits to the project sites shall be part of ongoing communication and outreach activities.
- Provide ETS contractor with current information related to the contract scope to maintain the external Portsmouth website.
- Participate in meetings and briefings to update interested external parties on contract activities when requested by DOE.

- Provide ongoing support to DOE in the preparation of communication materials, such as presentations, fact sheets, specialized graphics and charts, large posters, and up-to-date photography.
- Provide support for a 24-hour per day, 7-days per week, capability to staff the communication functions/positions of the Portsmouth Emergency Operations Center within 60 minutes of receipt of notification from the Occurrence Notification Center of a Portsmouth site emergency.

C.2.7.10.2 External Review and Support

External Review and Support to DOE involves providing support during audits and assessments by entities having oversight responsibility for DOE Portsmouth D&D Project and its contractors. These entities include:

- Defense Nuclear Facilities Safety Board (DNFSB);
- Government Accountability Office (GAO);
- DOE Office of Inspector General (OIG); and
- Other governmental and DOE organizations.

The contractor shall support the DOE Portsmouth site, DOE-PPPO, and the ETS contractor in hosting staff from auditing and assessing organizations, providing required presentations, responding to information requests, and providing required subject matter experts to respond to questions and information requests.

The contractor shall:

- Support DOE in interfacing with DNFSB oversight activities by:
  - Providing support for the preparation of DOE responses to DNFSB issues and recommendations that affect contract scope.
  - Cooperating with the DNFSB and providing access to work areas, personnel, and information, as necessary.
  - Maintaining a document process in accordance with the CRD M 140.1-1B, Interface with the DNFSB (or current version).
- Support DOE in interfacing with GAO, OIG, and other governmental and DOE oversight activities by:
  - Cooperating with assessors and auditors, and providing access to work areas, personnel, and information.
  - Providing support during audits and assessments, including delivering information within a specified time, arranging briefings, preparing presentation materials, maintaining a record

of documents provided in response to requests, and making this record available to DOE-PPPO as requested.

- Provide knowledgeable single points-of-contact for each of the following:
  - DNFSB; and
  - OIG, GAO, and other assessing governmental and DOE oversight organizations (including the DOE Office of Enforcement).

C.2.7.11 Real and Personal Property Management

The contractor shall be responsible for the tracking of the assigned real and personal property under the contract including high-risk material and equipment consistent with the 41 CFR 101, 109, DOE O 580.1-1, and other applicable regulations, promulgating specific policies, practices, and procedures.. The contractor shall conduct property inventories and provide input to the FSS contractor who will be responsible for the administration of the Facility Information Management System (FIMS) and Property Information Database System (PIDS).

The contractor shall be responsible for a sound vehicle and equipment fleet management. The contractor shall coordinate and interface with the FSS contractor in compliance with regulations and guidelines as set forth by the DOE, General Services Administration, and federal property management regulations. The FSS contractor is responsible for site wide fleet management program.

C.2.7.12 Asset Recovery and Recycling

The contractor shall recover, store, and manage all scrap metal and materials in accordance with DOE Orders, policies, and other Federal regulations, including requirements on unrestricted release (See Note below). Classified scrap metal and materials shall be handled in accordance with DOE security requirements. In the event a decision is made by DOE, the contractor may be directed in processing the classified scrap metal and materials to render them unfit for their intended uses.

In the event a decision is made by DOE, the contractor shall re-use, recycle, and/or dispose of scrap metal and materials outside the radiological area, in accordance with all DOE Orders, policies, federal statutes, and regulations.

In the event a decision is made by DOE, the contractor shall re-use, recycle, and/or dispose of scrap metal and materials inside the radiological area, in accordance with relevant DOE Orders, policies, federal statutes, and regulations, including regulatory and administrative requirements for controlled radiological use.

The contractor shall not release for unrestricted use any scrap metal from DOE radiological areas into commerce in accordance with the July 2000 (Memorandum of “Release of Surplus and Scrap Materials”, from Secretary Bill

Richardson, dated July 13, 2000) suspension prohibiting unrestricted release for recycling. Also, in accordance with the January 2000 (Press Release "Energy Secretary Richardson Blocks Nickel Recycling at Oak Ridge", dated January 12, 2000) moratorium instituted by the Secretary of Energy, the contractor is prohibited from unrestricted release of volumetrically-contaminated metal into commerce. The contractor shall comply with DOE policies that are developed to address or update the suspension or the moratorium. In the event a decision is made by DOE to develop a plan to re-use or recycle the Portsmouth nickel, compliance with the National Environmental Policy Act (NEPA) is required. Future generation of contaminated nickel at Portsmouth is not covered in the scope of the Environmental Assessment (EA) for disposition of existing inventory of scrap nickel stored at the Oak Ridge and Paducah sites.

C.2.7.13 Pension and Benefit Administration

The contractor shall become a participant in the Bechtel Jacobs Company, LLC (BJC) Multi-Employer Pension Plan (MEPP), the BJC Multiple Employer Welfare Arrangement (MEWA), and other existing benefit plans. The requirements associated with this responsibility are set forth in Section H.5, Special Provisions Applicable to Workforce Transition and Employee Compensation: Pay and Benefits.

C.3 Government-Furnished Services and Information (GFS/I)

Government furnished properties and services/items are provided in Section J, Attachments 3 and 12.

DOE is committed to providing effective support to the contractor throughout the period of contract performance, and the contractor may request that DOE consider providing additional GFS/I. To manage the GFS/I to be furnished under the contract and to evaluate the additional GFS/I that may be required by the contractor, the contractor shall submit for DOE approval:

- GFS/I Request: 12-month advance projection of GFS/I to be furnished under the contract and additional contractor-requested GFS/I, prior to each fiscal year;

- Information that supports the improved performance for the cost saved as a result of having the requested GFS/I, and

- GFS/I Request -- Update: quarterly update to the projection of GFS/I to be furnished under the contract and additional contractor-requested GFS/I, prior to each quarter.

DOE will review the 12-month and quarterly advance projections. If it is determined to be in the best interest of the Government, DOE will notify the contractor within 30 days that the additional contractor-requested GFS/I can be provided, and will provide the contractor details regarding the DOE action(s). The supported GFS/I will be added to the Section J Attachment, Government-Furnished Services and Information (GFS/I), as a DOE commitment to the contractor.

If DOE cannot support a contractor request, DOE will notify the contractor within 30 days that the requested GFS/I cannot be provided, and there will be no DOE commitment to the contractor to furnish the GFS/I.

For the additional contractor requested GFS/I, DOE will use its best efforts to meet these requests; however, in the event that DOE is unable, for any reason, to provide the contractor with its requested additional GFS/I, the contractor remains fully and solely responsible for obtaining the needed services and/or information in a timely manner and without any further recourse against DOE.

C.4 Summary of Contract Deliverables

Table C-2, Summary of Contract Deliverables, summarizes the specific products the contractor shall submit to the DOE, the type of action DOE will perform, and the date/timeframe that the contractor is required to submit the product.

Deliverables are considered contractor endpoints, work scope completions, products, reports or commitments that shall be delivered to DOE. The types of DOE action are defined as:

- Approve – The contractor shall provide the deliverable to DOE for review and approval. The contractor is responsible for obtaining DOE approval. The initial deliverable shall be of sufficient quality, depth, thoroughness, and format to support DOE approval. DOE will review the deliverable and provide comments in writing. DOE comments will be discussed with the contractor and the contractor shall provide written responses. The contractor shall re-write the documents to incorporate all DOE mandatory comments. Once DOE approves a deliverable or document, the contractor shall place it under change control and shall make no changes to that document without further DOE approval.
- Information – The contractor shall provide the deliverable to DOE for information purposes. DOE will have the option of reviewing the information and providing comments. The contractor shall respond to all written comments.

Table C-2, Summary of Contract Deliverables does not include all required deliverables identified in other applicable sections of the contract, DOE directives, federal regulations, or regulatory documents**.** The contractor shall be responsible for the compliance with all applicable standards, orders and regulations under the contract.

TABLE C-2: SUMMARY OF CONTRACT DELIVERABLES

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
1.	C.2.1	Executive Summary	Review and Concurrence	Within 24 hours of contract award
2.	C.2.1	Contract Transition Plan including a Communication Plan	Approve	5 days after contract award
3.	C.2.1	Initial Annual Work Plan	Approve	5 days after award
4.	C.2.1	Transition Agreements: beginning and end of the contract period.	Information	90 days after award and 120 days prior to the end of contract
5.	C.2.1	Transition Status Report	Information	Weekly during transition periods (beginning and end)
6.	C.2.2	Surveillance and Maintenance and Facility Stabilization Program and Plans	Approve	90 days after contract award
7.	C.2.2 and C.2.3	Optimization and re-routing of Utilities Plans	Approve	As required
8.	C.2.3	D&D Implementation Plans	Approve	90 days prior to the initiation of D&D activities
9.	C.2.3	D&D Completion Report	Approve	60 days after completion of D&D activities
10.	C.2.4.2	Soil characterization sampling and analysis plans	Approve	90 days prior to activity
11.	C.2.4.2	Soil Remediation Excavation and Restoration Plan	Approve	90 days prior to the initiation of excavation
12.	C.2.4.2	Soil Remediation Excavation	Approve	60 days after completion of

[5] All days refer to calendar days.

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
		Completion Report		restoration
13.	C.2.4.3	Update to Integrated Groundwater Monitoring Plan (IGWMP)	Approve	As required
14.	C.2.4.3	Annual Report on Ground Water Well Maintenance	Approve	60 days after annual evaluation period
15.	C.2.5	Portsmouth Waste Management Plan	Approve	90 days after contract award and update as required
16.	C.2.5.1	Portsmouth Site Treatment Plan	Approve	As required
17.	C.2.5.2	Packaging and Transportation Plans	Approve	90 days after contract award and update as required
18.	C.2.5.3	Summary Reports on waste stream life cycle projections planned for disposal facilities	Information	90 days after contract award and update as required
19.	C.2.5.3	Waste Disposal Plan	Approve	90 days after contract award
20.	C.2.5.4.1	Preliminary Design Package for OSWDF*	Approve	TBD
21.	C.2.5.4.1	Final Design Package for OSWDF**	Approve	TBD
22.	C.2.5.4.1	Construction procurement package	Approve	TBD
23.	C.2.5.4.2	OSWDF Construction Completion Report**	Approve	TBD
24.	C.2.5 and other applicable sections of the	Startup and Operations Plans and Reviews**	Approve	As required

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
	PWS			
25.	C.2.6	Nuclear Material Controls and Accountability Plan/Program	Approve	90 days after contract award and update as required
26.	C.2.7	Contract Close-out Plan	Approve	6 months prior to contract expiration date
27.	C.2.7.1	Master Plan	Approve	90 days after contract award and update and maintain as necessary
28.	C.2.7.1	Long Term Stewardship Plan	Information	TBD
29.	C.2.7.1, and other applicable sections of PWS	CERCLA and RCRA Documents (RI/FS, ROD, RD/RA, RFI, CMS, CMI, CA) and other project regulatory documents	Approve	As required
30.	C.2.7.1.3	Facility Transfer Process Plan	Approve	90 days after award of contract and update as required
31.	C.2.7.1	Updates to Services and Interface Requirements Matrix	Information	As required
32.	C.2.7.2	Commitments and Leases: Reporting of operating and capital leases, and commitments.	Approve	3rd Quarter and Yearend
33.	C.2.7.2	Project Execution Plan (including Project Control Systems Description): can be submitted with the Baseline submittal	Approve	120 days after award of contract and update as required
34.	C.2.7.2	EVMS Certification Plan	Approve	With proposal and updates as required

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
35.	C.2.7.2	Performance Measurement Baseline with outyear planning package including WBS dictionary	Approve	120 days after award of contract
36.	C.2.7.2	Baseline Change Proposal Log	Information	Monthly
37.	C.2.7.2	Annual Work Plan	Approve	Annually
38.	C.2.7.2	Risk Analysis and Management Plan (initial submittal with the Baseline)	Approve	Monthly for risk analysis and in accordance with the Baseline Management and Change Control process.
39.	C.2.7.2	Financial Accounting and Reporting/Cost Management Report	Approve	Monthly
40.	C.2.7.2	Cost Performance Report/Monthly Performance Report	Information	Monthly
41.	C.2.7.2	Budget Allocation Plan	Information	Annually and as required
42.	C.2.7.2	Incurred Cost Proposal: Annual submission of costs incurred.	Approve	Annually
43.	OMB Circular 123	Federal Managers Financial Integrity Act Report (FMFIA) Report	Approve	Annually
44.	C.2.7.3 and Section I Clause, DEAR 970.5223-1	Integrated Safety Management Systems Program and Plans (H&S, Environmental Safety, Emergency, etc.)	Approve	90 days after contract award
45.	C.2.7.3	Site Emergency Plan (integrated with USEC) and updates	Approve	90 days after contract award and as changes occur
46.	DOE O 151.1C	Emergency Planning Hazards Assessment and	Approve	Tri-annually or as changes occur

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
		Hazard Survey		
47.	C.2.7.3	Documented Safety Analysis and Safety Basis Documentations	Approve	90 days after contract award and as changes occur
48.	C.2.7.3	Nuclear Criticality Safety program (and required plans)	Approve	90 days after award of contract and as required
49.	C.2.7.3	Radiation Protection Program and required plans	Approve	90 days after award of contract and as required
50.	C.2.7.3	Radiological Site Services Program and required plans	Approve	90 days after award of contract and as required
51.	C.2.7.3	Non-Conformance Reports and Incident Reports (e.g. Injury/illness/accident reports)	Approve	As specified in applicable DOE Order
52.	DOE O 150.1	Continuity of Operations Plan or Business Recovery Plan and updates	Approve	90 days after contract award and as changes occur
53.	C.2.7.3	Quality Assurance Plan	Approve	90 days after award of contract and as required.
54.	C.2.7.6	Annual Site Environmental Report (ASER) (including annual summary of radionuclide air emissions)	Approve	Annually
55.	C.2.7.7	Safeguards and Security Program and plans	Information	90 days after award of contract and as required
56.	C.2.7.9	Records Management Plan including Document Control Systems and Processes	Information	90 days after award of contract
57.	C.2.7.10	External Affairs Program Description	Information	90 days after award of contract
58.	C.2.7.11	Property Management System and Maintenance Implementation Plan and	Information	90 days after award of contract and as changes occur

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
		updates		
59.	C.3	Government-Furnished Services and Information Request and Updates	Approve	Quarterly as required
60.	H.37	Portsmouth Site Community Commitment Plan	Information	Updates annually
61.	H.25(a)	Litigation Management Plan	Approve	90 days after award of contract
62.	G.6	Submission of Invoices	Approve	Monthly
63.	H.4	Human Resources Compensation Plan	Approve	Within 90 days of award and prior to any major program design changes
64.	H.4	Employee Benefits Value Study (Ben-Val)	Approve	Every 2 years
65.	H.4	For each pension plan or portion of a pension plan for which DOE reimburses costs: - Copies of IRS forms 5500 with schedules - Copies of all forms in the 5300 series that document the establishment, amendment, termination, spin-off, or merger of a plan	Information	Within 9 months of last day of current pension year
66.	H.10	Overtime Control Plan	Approve	As required
67.	H.10	Semiannual Report on Overtime Use	Information	As required
68.	H.4	Collective Bargaining Agreements	Information	24 hours after conclusion of negotiation
69.	H.4	Report of Settlement	Information	30 days after settlement of collective bargaining agreement negotiations. Report to be entered

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
				electronically into the Work Force Information System (WFIS)
70.	H.6	Final Workforce Transition Plan	Approve	30 days after contract award
71.	H.6	Transition Agreements in compliance with H.3 a. Description of Transition Agreements b. Draft Transition Agreements c. Final Transition Agreements	Approve	a. Within 10 days after award b. 30 days after contract award c. Within 60 days after contract award
72.	H.6	Written Communication Plan (details communication that contractor and its subcontractors will engage in with Portsmouth contractors regarding Implementation of Hiring Preferences)	Approve	Within 10 days after contract award
73.	H.6	Draft Workforce Transition Plan for contractor and its 1st and 2nd Tier Subcontractors	Information	Within 15 days after award
74.	H.6	Written Communication Plan with Employees – Hiring Preferences (LPP Incumbent, TPMC, UDS, and USEC)	Information	Within 15 days after award
75.	H.6	Implementation of Hiring Preferences Reports	Information	a. Weekly basis during the 90 day Contract Transition Period b. Biweekly during the remainder of the six-month Workforce Transition Period c. After the Workforce Transition Period, within timeframes as requested by

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
				CO.
76.	H.6	Written description of process for obtaining information from USEC, TPMC, and UDS regarding employees at risk of being involuntarily separated	Information	Within 6 months after contract award
77.	H.6	Draft Benefits Transition Plan	Information	Within 20 days after contract award
78.	H.6	Final Benefits Transition Plan	Information	Within 30 days after contract award
79.	H.6	List of Personnel Responsible for Benefit Plans	Information	Within 10 days after contract award
80.	H.6	Estimated Costs for Workforce and Benefits Transition	Information	Within 10 days after contract award
81.	H.6	Provide list of information and documents contractor has requested from BJC and Portsmouth contractors pertaining to transition of the BJC MEPP and MEWA and other existing benefit plans	Information	Within 15 days after contract award
82.	H.6	Provide detailed description of plans and processes for ensuring compliance with H.4(E) and H.5(B)	Information	Within 20 days of contract award
83.	H.6	Meeting with those who administer the benefit plans for LPP Incumbent Contractor and BJC Submit Meeting Minutes to CO	Information	Within 20 days of contract award Within 2 days after the meeting
84.	H.6	Draft Contractor Employee Compensation Plan	Information	Within 45 days after contract award

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
		Final Version	Approve	
85.	H.6	Drafts of all amendments to or restatements of the pension and other benefit plans presently sponsored by BJC and the LPP Incumbent Contractor Final Version	Information Approve	Within 45 days after contract award No later than 60 days after contract award
86.	H.6	Drafts of any new benefit plans(s) as well as draft Summary Plan Descriptions the contractor proposes to sponsor Final Version	Information Approve	Within 45 days after contract award No later than 60 days after contract award
87.	H.6	Draft Copies of Transition Agreements with BJC and Portsmouth contractors to ensure compliance with H.4 and H.5	Information	Within 45 days after contract award
88.	H.9	Workforce Restructuring Plan	Approve	As required – In advance of work force restructuring actions
89.	H.3 and H.4	Monthly, end of year and upcoming fiscal year head counts (including salary range, years of service, job classification, grandfather status)	Information	As required
90.	H.4	Report of Compensation	Information	Semi-annually on April 15th and October 15th
91.	H.4	Compensation Increase Plan	Approve	Annually – Two weeks prior to beginning of salary plan

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
				year
92.	H.4	Application for Contractor Compensation Approval	Approval	30 days after contractor award for top five highly compensated and thereafter for any proposed changes in compensation
93.	H.4	Report of Contractor Expenditures for Employee Supplementary Compensation	Approval	Annually by March 1st - Data to be entered electronically into Workforce Information System (WFIS)
94.	H.4	Contractor Salary-Wage Increase Expenditure Report	Information	30 days after end of Salary Plan year
95.	H.4 and H.5	Contractor Benefit Programs	Approve	30 days after contract award and prior to any major program changes
96.	H.8	Workplace Substance Abuse Program	Approve	30 days after contract award
97.	H.8	Substance Abuse Program Results and Reports for Lower Tier Subcontractors	Information	Semi-Annually on January 30th and July 30th
98.	H.34	Davis-Bacon Semi Annual Report of Enforcement	Information	Semi-Annually on April 15th and October 15th
99.	H.9	Advance Notification of Involuntary separations	Approval	Notification of no less than 30 days prior to planned involuntary separation of employees
100.	H.8	Incentive Plan (if Established)	Approval	Prior to implementation
101.	H.8	Employee Assistance Program Plan	Approval	30 days after contract award
102.	H.40	Standard Form (SF) 294, Subcontracting Reports for Individual Contracts (Electronic Submittal)	Approve	Semi-Annually

	Deliverable Reference	Deliverable	DOE Action	Deliverable Due Date[5]
103.	H.40	Standard Form (SF) 295, Summary Subcontract Reports (Electronic Submittal)	Approve	Annually
104.	H.41	Parent Organization Support Plan (POSP)	Approve	30 days after contract award or 60 days prior to work commencement, and 90 days prior to start of each year of contract performance.
105.	Federal Financial Accounting Standards (SFFAS) No. 6	Deferred Maintenance Disclosure Forms: Reporting of deferred maintenance on personal property.	Approve	Year-end
106.	DOE O 430.1B Chg.1	Energy Consumption Report	Information	Quarterly
107.	DOE O 5480.19	Conduct of Operations	Approve	90 days after contract award and as required
108.	DOE Financial Statement	Commitments and Leases	Information	Third quarter and year end

Notes

- [*]Preliminary design activities for a potential on-site disposal facility are to be prepared to support the project waste disposition evaluations.
- [**]On-site disposal cell development activities will not be conducted if an on-site cell is not approved through the regulatory review and approval process.